

AGENDA: MISR Data Users Science Symposium 2012
Beckman Institute Auditorium, California Institute of Technology, Pasadena, CA

Monday, December 10

Welcome

8:15 AM	Sign-in	All	30
8:45 AM	Welcome	David Diner	15

Aerosols I

Moderator: Peter Webley, University of Alaska

9:00 AM	What MISR can say about wildfire smoke, volcanic ash, and urban pollution	Ralph Kahn	20
9:20 AM	Time series analysis of global surface PM _{2.5} from remote-sensed aerosol optical depth	Brian Boys	20
9:40 AM	Satellite-observed trend in particle sulfate concentrations in the continental U.S. and its surrounding regions	Yang Liu	20
10:00 AM	A high-resolution aerosol retrieval method for urban areas using MISR data	Taesup Moon	20
10:20 AM	Discussion	All	5
10:25 AM	Break	All	20

Aerosols II

Moderator: Max Bleiweiss, New Mexico State University

10:45 AM	Recovery of aerosol 3D distribution based on multiangular imaging: a single-scattering baseline	Amit Aides	20
11:05 AM	What causes MISR nonsphericity bands: Operational algorithm sensitivity to non-spherical models	Olga Kalashnikova	20
11:25 AM	A numerical testbed for remote sensing of aerosols	Jun Wang	20
11:45 AM	Smoke and dust aerosol type discrimination in MAIAC algorithm	Alexei Lyapustin	20
12:05 PM	Southern Ocean aerosol optical depth maximum: perspectives from Multiangle Imaging SpectroRadiometer retrievals and in-situ observations	Marcin Witek	20
12:25 PM	Discussion	All	5
12:30 PM	Lunch	All	90

Surfaces I

Moderator: Lesley-Ann Dupigny-Giroux, University of Vermont

2:00 PM	Angle of polarization as a contrast mechanism in remote sensing	Russell Chipman	20
2:20 PM	Evidence in favor of and against the polarimetric spectral invariance hypothesis	Christine Bradley	20
2:40 PM	The MISR-HR system: Status and prospects	Michel Verstraete	20

Poster session I

3:00 PM	Poster viewing and break	All	90
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Surfaces I (continued)

4:30 PM	What can multi-angle MISR observations at 275m resolution tell us about foliage clumping?	Jan Pisek	20
4:50 PM	Global mapping of vegetation background using MISR data for improving LAI retrieval	Jing Chen	20
5:10 PM	Discussion	All	5
5:15 PM	Adjourn		

Social event at the La Cañada Flintridge Country Club

6:30 PM	Cocktails
7:00 PM	Dinner and music

Tuesday, December 11

Clouds I

Moderator: Eugene Clothiaux, Pennsylvania State University

9:00 AM	Cloud drop effective radius as seen from aircraft, MODIS and MISR	Larry Di Girolamo	20
9:20 AM	AirMSPI polarimetric observations of cloud drop size distributions	Michael Garay	20
9:40 AM	An intercomparison of clouds and radiation in CMIP5 models	Benjamin Hillman	20
10:00 AM	Cloud properties in the southern oceans: observations vs. models	Catherine Naud	20
10:20 AM	Break	All	20
10:40 AM	Evaluating the cloud microphysical response to fire aerosols in southeast Asia using satellite observations	Michael Tosca	20
11:00 AM	Discussion	All	5

Clouds II

Moderator: Roger Marchand, University of Washington

11:05 AM	Differences between MISR CTH products in Sc-to-Cu transition areas	Elke Ludewig	20
11:25 AM	Statistical analysis of the new MISR cloud height and motion data	Dong Wu	20
11:45 AM	Assessment of MISR and AATSR stereo-derived cloud coverage over Greenland	Jan-Peter Muller	20
12:05 PM	Lunch	All	90

Clouds II (continued)

1:35 PM	MISR-based 3D cloud tomography: A progress report	Anthony Davis	20
1:55 PM	Trends in cloud top height: Real or not?	Joel Norris	20
2:15 PM	Changes in effective height and albedo	Roger Davies	20
2:35 PM	Discussion	All	5

Poster session II

2:40 PM	Poster viewing and break	All	90
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Surfaces II

Moderator: John Martonchik, JPL

4:10 PM	Removing effects of 3D canopy structure on retrieving leaf biochemical constituents	Yuri Knyazikhin	20
4:30 PM	Forest and shrub mapping with MISR	Mark Chopping	20
4:50 PM	Greenland surface roughness from 2000-2012 and a glacier zone classification	Anne Nolin	20
5:10 PM	Discussion	All	5

Wrap-up

5:15 PM	Closing comments	David Diner	10
5:25 PM	Adjourn		

Posters

No.	Title	Lead author
1	Hi-res cloud base and layer recovery from multi-angle dense images	Amit Aides
2	Aerosol characterization over the past decade in the Southeastern U.S.: Linking air quality and climate change	Erica Alston
3	Angle of polarization rotation in clouds	Christine Bradley
4	The new GroundMSPI polarimeter	Karlton Crabtree
5	Case studies of aerosol remote sensing with the Airborne Multiangle SpectroPolarimetric Imager (AirMSPI)	David Diner
6	A reference database for validation of MISR-based Arctic shrub canopy structure	Rocio Duchesne
7	Particle property data quality flags for the MISR Aerosol Product	Barbara Gaitley
8	Anamorphic enhancements for the next generation of Multi-angle Imaging SpectroRadiometers	David Johnson
9	Squeezing the existing, global, multi-angle imaging data for constraints on aerosol type	Ralph Kahn
10	Detecting moving watercrafts using MISR	Vadim Kotlar
11	Initial evaluation of MISR L2 TCSP wind product against ERA-interim reanalysis	Jae Lee
12	Retrieving aerosol in a cloudy environment: aerosol product availability as a function of spatial resolution	Shana Mattoo
13	New MISR winds status	Catherine Moroney
14	Cloud and wind climate variability observed by MISR	Kevin Mueller
15	Assessment of broadband MISR albedos against GlobAlbedo, MODIS, and METEOSAT	Jan-Peter Muller
16	Understanding the link between MISR volcanic ash cloud top-height, Volcanic Explosivity Index and lightning from WWLLN	Jan-Peter Muller
17	PSCs from AATSR - a comparison with MISR results	Jan-Peter Muller
18	Greenland ice sheet glacier zone classification using roughness and NIR reflectance	Anne Nolin
19	Towards optimization of MISR aerosol retrievals	Suniti Sanghavi
20	Bidirectional polarization of sorghum canopy	Vern Vanderbilt
21	High spatial resolution (275 m) land surface ECVs from the MISR-HR package	Michel Verstraete
22	Decadal observations of rift propagation in the Amery Ice Shelf, East Antarctica	Catherine Walker
23	Mapping forest structure and above-ground biomass based on MISR data for the southwestern US	Tian Yao